BRUHATH BANGALORE MAHANAGARA PALIKE

Rajarajeshwari Nagar Zone.

DETAILED ESTIMATE FOR PUBLIC WORKS

Name of the work : Providing Tubular poles, Street light fittings and AB/UG Cable along with required Accessories at BFW Road from Pipe line road To HMT Railway bridge , ward No-16, RR Nagar Zone.

Rs. 10,00,000/-

Sl. No	Page No/ Item	Description	Unit	Qty	Rate	Amt(Rs)
		PART-A, PWD ELECTRICAL SR-2019-20				
1	40/6.4	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975, 5) 3.5 core 25 sqmm	Mtr	80	180.00	14400.00
2	41/6.5	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. On wall /Structure 6.5.2) 25 sqmm to 75 sqmm	Rmt	80	15.50	1240.00
3	32/5.48	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each	5	4030.00	20150.00
4	30/5.41	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 2) 50x50x6mm	Per Mtr	12	330.00	3960.00
5	26/5.13	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 4) 100 to 125Amps	Each	5	7200.00	36000.00
6	10/3.9	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws.	Sqcm	8000	0.24	1920.00
7	7/2.7	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring. 1) 4 Sq mm	Mtr	300	9.00	2700.00
8	66/12.8	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. 4) LED Streetlight 90 Watts	No	16	7160.00	114560.00

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9	13/4.1	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S.base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 4.1.1) 9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mmdia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32	Each	25	13200.00	330000.00
10	43/6.17	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes 7) 25 sqmm. Long Barrel	Each	15	20.00	300.00
11	31/5.44	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. 5.44.) 300mmx450mmx214mm	Each	5	5127.00	25635.00
12	79/14.4	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories. 14.4.1) Single bracket 1.5 Mtr. Length	Each	25	1200.00	30000.00
13	27/5.17.9	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.9)50-63Amps TPN (Pg no-27 item no-5.17.9)	Each	5	2397.00	11985.00
14	25/5.7.3	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers c)63Amps (Pg no-25 item no-5.7.3)	Each	5	227.00	1135.00
		Sub total Part-A				**593985.00**
		Part B, PWD ELECTRICAL SR-2014-15, BESCOM, PWD CIVIL SR-2018-19				
15	56/7.6.1	Supplying and stringing of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 1_ 2 X 16 + 1 X 25 SQ.MM	Per Mtr	2500	92.00	230000.00
16	83/8	Supplying and fixing pole clamp for LT AB Cable bescom sr -18-19	Set Each	55	314.00	17270.00
17	83/07	Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook) Bescom SR 2018-19 (material cost + labour charges)	Set No	55	323.00	17765.00
18	83/10	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm (excluding pole clamps and Eye hook) Bescom SR 2018-19 (material cost + labour charges)	Set No	15	304.00	4560.00

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19	83/11	Universal Hook, Bolts & nuts including fixing charges Bescom SR 2018-19 (material cost + labour charges)	No	55	441.00	24255.00
20	83/6	Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections including fixing charges Bescom SR 2018-19 (material cost + labour charges)	No	100	224.00	22400.00
		Sub Total part-A				**593985.00**
		Sub Total part-B				**316250.00**
		ADD GST 12 % on Part-A				**71278.20**
		Bescom charges, Miscellanious and Roundoff				**18486.80**
		Grand Total				**1000000.00**
Rupees Ten Lakhs Only						

CERTIFICATE :-

1 Certified that this place was inspected by me, this work is essential and prepared this estimate in most

2 The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and

3 This Estimate rates are based on the KPWD Electrical SR-2014-15,2019-20 and BESCOM SR.

Junior Engineer (Ele)
RR Nagara Zone

Asst. Executive Engineer (Ele)
RR Nagara Zone

EXECUTIVE ENGINEER (Ele)
RR Nagara Zone, BBMP

Administrative Sanctioned for Rs. 1000000/-

Rs. Ten lakh only.

.....is accorded

under the head P0300

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By EE (Elect) RRN/ Page No-50 & 51

Registered as EE (Elect)RRN/No. 12/21-22 Subject to conditions contained in enclosed memo

No. 12/21-22 Date. 04/09/2021

AE, (Elect) RRN

EE, (Elect) RRN

Technically Sanctioned for Rs. 1000000/-

Rs. Ten lakh only.

.....is accorded

under the head P0300

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By EE (Elect) RRN/ Page No:- 38 & 39

Registered as R.R.N. No 04/21-22 Subject to conditions contained in enclosed memo

No 04/21-22 Date 06/09/2021

AE, (Elect) RRN

EE, (Elect) RRN